What is claimed is:

- 1. A pneumatic tire provided with a belt layer composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, wherein, when a width of the respective strip pieces, an applicable number of the strip pieces, a cord angle of the belt layer with respect to a circumferential direction of the tire, and a circumferential length of the belt layer are respectively denoted by A, N, θ, and L: an integer satisfying (N+1)×A/sinθ > L > N×A/sinθ is selected as the applicable number N; and the belt layer is formed by aligning the N strip pieces in the circumferential direction of the tire with equal spaces disposed between adjacent ones of these N strip pieces.
- 2. A pneumatic tire provided with two belt layers each composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, wherein, when a width of the respective strip pieces, a thickness of the respective strip pieces, a cord angle of the respective belt layers with respect to a circumferential direction of the tire, applicable numbers of the strip pieces composing the respective inner and outer belt layers, and circumferential lengths of the respective inner and outer belt layers are respectively denoted by A, G, θ , N_1 and N_2 , and L_1 and L_2 : the applicable number N_2 is set equal to the applicable number N_1 while an integer satisfying $L_1 = N_1 \times A/\sin\theta$ is selected as the applicable number N_1 ; the inner belt layer is formed by joining the N_1 strip pieces to one another in a manner that each of both sides of each strip piece is butted with one side of another strip piece; and the outer belt layer is formed by aligning the N_2 strip pieces on the inner belt layer in the circumferential direction of the tire

with spaces, which are each equivalent to $2\pi G/N_2$, disposed between adjacent ones of these N_2 strip pieces.

3. A method of manufacturing a pneumatic tire provided with a belt layer composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, when a width of the respective strip pieces, an applicable number of the strip pieces, a cord angle of the belt layer with respect to a circumferential direction of the tire, and a circumferential length of the belt layer are respectively denoted by A, N, θ, and L, the method comprising the steps of:

selecting an integer satisfying $(N+1)\times A/\sin\theta > L > N\times A/\sin\theta$ as the applicable number N; and

forming the belt layer by aligning the N strip pieces on a molding drum in the circumferential direction of the tire with equal spaces disposed between adjacent ones of these N strip pieces.

4. A method of manufacturing a pneumatic tire provided with two belt layers each composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, when a width of the respective strip pieces, a thickness of the respective strip pieces, a cord angle of the respective belt layers with respect to a circumferential direction of the tire, applicable numbers of the strip pieces composing the respective inner and outer belt layers, and circumferential lengths of the respective inner and outer belt layers are respectively denoted by A, G, θ, N₁ and N₂, and L₁ and L₂, the method comprising the steps of:

setting the applicable number N_2 equal to the applicable number N_1 while selecting an integer satisfying $L_1 = N_1 \times A / \sin \theta$ as the applicable

number N₁;

forming the inner belt layer by joining the N₁ strip pieces to one another in a manner that each of both sides of each strip piece is butted with one side of another strip piece; and

forming the outer belt layer by aligning the N_2 strip pieces on the inner belt layer in the circumferential direction of the tire with spaces, which are each equivalent to $2\pi G/N_2$, disposed between adjacent ones of these N_2 strip pieces.

- 5. A pneumatic tire provided with a belt layer composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, wherein, when a width of the respective strip pieces, an applicable number of the strip pieces, a cord angle of the belt layer with respect to a circumferential direction of the tire, and a circumferential length of the belt layer are respectively denoted by A, N, θ , and L: an integer satisfying (N+1)×A/sin θ > L > N×A/sin θ is selected as the applicable number N; an annular body is formed by joining the N strip pieces to one another in a manner that each of both sides of each strip piece is butted to one side of another strip piece; and the belt layer is formed by elongating a circumferential length of the annular body to the length L.
- 6. A pneumatic tire provided with two belt layers each composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, wherein, when a width of the respective strip pieces, a cord angle of the respective belt layers with respect to a circumferential direction of the tire, applicable numbers of the strip pieces composing the respective inner and outer belt layers, and

circumferential lengths of the respective inner and outer belt layers are respectively denoted by A, θ , N₁ and N₂, and L₁ and L₂: the applicable number N₁ is set to a number satisfying a relation "N₁ = N₂-1" while an integer satisfying L₂ = N₂×A/sin θ is selected as the applicable number N₂; an annular body is formed by joining the N₁ strip pieces to one another in a manner that each of both sides of each strip piece is butted with one side of another strip piece; the inner belt layer is formed by elongating a circumferential length of the annular body to the length L₁; and the outer belt layer is formed by joining the N₂ strip pieces to one another on the inner belt layer in a manner that each of both sides of each strip piece is butted with one side of another strip piece.

7. A method of manufacturing a pneumatic tire provided with a belt layer composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, when a width of the respective strip pieces, an applicable number of the strip pieces, a cord angle of the belt layer with respect to a circumferential direction of the tire, and a circumferential length of the belt layer are respectively denoted by A, N, θ , and L, the method comprising the steps of:

selecting an integer satisfying $(N+1)\times A/\sin\theta > L > N\times A/\sin\theta$ as the applicable number N of the strip pieces;

forming an annular body by joining the N strip pieces to one another on an expandable and contractible molding drum in a manner that each of both sides of each strip piece is butted with one side of another strip piece; and

thereafter forming the belt layer by elongating a circumferential

length of the annular body to the length L with expansion of the molding drum in a diameter direction thereof.

8. A method of manufacturing a pneumatic tire provided with two belt layers each composed of a plurality of strip pieces each of which is formed by pulling together and rubberizing a plurality of steel cords, when a width of the respective strip pieces, a cord angle of the respective belt layers with respect to a circumferential direction of the tire, applicable numbers of the strip pieces composing the respective inner and outer belt layers, and circumferential lengths of the respective inner and outer belt layers are respectively denoted by A, θ, N₁ and N₂, and L₁ and L₂, the method comprising the steps of:

setting the applicable number N_1 to a number satisfying a relation " $N_1 = N_2-1$ " while selecting an integer satisfying $L_2 = N_2 \times A/\sin\theta$ as the applicable number N_2 ;

forming an annular body by joining the N₁ strip pieces to one another on an expandable and contractible molding drum in a manner that each of both sides of each strip piece is butted with one side of another strip piece;

thereafter forming the inner belt layer by elongating a circumferential length of the annular body to the length L_1 with expansion of the molding drum in a diameter direction thereof; and

subsequently forming the outer belt layer by joining the N₂ strip pieces to one another on the inner belt layer in a manner that each of both sides of each strip piece is butted with one side of another strip piece.